

**To:** Abercrombie, Celina (ECY[ceab461@ECY.WA.GOV]; Abrahamson, Jim[Jim.Abrahamson@cngc.com]; Alison Osullivan[aosullivan@suquamish.nsn.us]; Andrea Spencer[Andrea.spencer@ci.bremerton.wa.us]; Andrew Neil[drew.neil@neillaw.com]; Chris.Neil@neillaw.com[chris.neil@neillaw.com]; Cindy Schexnider[cindy\_schexnider@fws.gov]; Denise Taylor[dtaylor@suquamish.nsn.us]; Erika Shaffer[erika.shaffer@dnr.wa.gov]; Fuentes, Rene[fuentes.rene@epa.gov]; gabrielle\_robinson@fws.gov[gabrielle\_robinson@fws.gov]; Garrett Jackson[Garrett.Jackson@ci.bremerton.wa.us]; Godel, Kalle[Kalle.Godel@mdu.com]; Greg Wheeler[greg.wheeler@ci.bremerton.wa.us]; Hoffman, Erika[Hoffman.Erika@epa.gov]; Ian J Zelo - NOAA Federal[ian.j.zelo@noaa.gov]; Jan Brower[jan.brower@kitsappublichealth.org]; Jeremy Porter[jporter@aspectconsulting.com]; Josh Benton[Joshua.Benton@dfw.wa.gov]; Kaetzel, Rhonda[Kaetzel.Rhonda@epa.gov]; Kelli Lambert[Kelli.lambert@ci.bremerton.wa.us]; Krausmann, Jeff[jeff\_krausmann@fws.gov]; Lynch, Kira[lynch.kira@epa.gov]; Marla.Steinhoff@noaa.gov[Marla.Steinhoff@noaa.gov]; Nathan Soccorsy[nsoccorsy@anchorqea.com]; Neal Cox[neal.cox@dnr.wa.gov]; Nwosu, Julius[nwosu.julius@epa.gov]; pgsmail@pacificguardian.org[pgsmail@pacificguardian.org]; Sarah Lindsley[Sarah.Lindsley@hud.gov]; SCHMIDT, LINDIE (DNR[LINDIE.SCHMIDT@dnr.wa.gov]; SHAYNE COTHERN[SHAYNE.COTHERN@dnr.wa.gov]; Sherbina, Debra[Sherbina.Debra@epa.gov]; Susan Moore[Susan.Moore@CH2M.com]; teri.setbacken@neillaw.com[teri.setbacken@neillaw.com]; Trip McConkey[trip@pennplaza.biz]; VickiCarrillo[vicki.carrillo@neillaw.com]

**From:** DeMaria, Eva

**Sent:** Thur 3/29/2018 1:00:31 PM

**Subject:** Bremerton Gas Works 3/22/18 Stakeholder meeting followup  
[180322 BGW Stakeholders Mtg Attendees.docx](#)

Hi all-

I wanted to thank you for your time and presence during our update of the remedial investigation currently underway at the Bremerton Gas Works superfund site. Thanks also to Cascade Natural Gas and their contractors Aspect Consulting and Anchor QEA for presenting. As a followup, I wanted to provide you with what I thought were some of the Q&A highlights of the meeting. I've also attached the attendee list. It was good to finally meet all of you and I hope we can hold our next meeting in another year. As always, feel free to call or email with questions or forward on any inquiries to me.

*How often are the time critical removal action (TCRA) caps inspected and are there plans to sample them?*

The sediment caps are inspected visually on a quarterly basis. During the monitoring period there have been no observations of sheen and no visible changes to cap structure or the beach area around them since construction. Sampling has already been conducted in the area surrounding and under the 2013 TCRA cap. Sampling has been conducted in areas surrounding the 2010 TCRA cap, but no additional sampling is currently planned as it could compromise the cap integrity.

*Was sheen observed during the clam survey?*

No sheens were observed during the clam survey. During subsurface sediment core processing (which was a separate mobilization) one small bleb was observed in a subsurface sediment sample interval.

*Where was NAPL found?*

Non-aqueous phase liquid (NAPL) is an organic liquid that has relatively low water solubility and exists as a separate, immiscible phase. Thin stringers of NAPL were observed in shallow soil on the southern part of the former Gas Works property in the former Gas Works process area and in deeper fill soil in the ravine area. The depth of groundwater is approximately 30 feet and NAPL was observed at the water table. Its presence at the top of the groundwater indicates that it may be LNAPL, but not enough has been collected to analyze for density in order to distinguish between LNAPL and DNAPL.

*Are the drinking water supplies safe?*

There are no known drinking water wells nearby.

*What are the primary contaminants of concern?*

Based on information and data collected to date (including soil, groundwater and sediment data), they appear to be carcinogenic polycyclic aromatic hydrocarbons (cPAHs), naphthalene, cyanide, and benzene, toluene, ethylbenzene and xylenes (BTEX). Detections of polychlorinated biphenyls (PCBs) and dioxins/furans in sediment have been low. We will know more once the data collection effort is completed.

*What about seeps?*

No seeps have been observed on the bluff or in the ravine. However, seeps have been observed in the intertidal areas and it is believed to be related to groundwater.

*Any concerns the public should know about?*

Public access to the upland area is controlled by fencing around the property. The most contaminated parts of the beach are capped. Signs around the property and near the beach also explain that this is a Superfund site with contaminated sediments warning the public not to harvest clams or dig in the area. The beach is also closed to harvesting seafood for other reasons not related to the site.

*The previous EPA Remedial Project Manager (RPM) said the site is so small that it would be fully cleaned.*

The amount of cleanup will be determined by evaluating nine minimum criteria which includes ensuring protection of human health and the environment, compliance with federal/state requirements, long term effectiveness, cost, state/tribal/community acceptance, etc. In many cases, some degree of contamination is left in place and institutional controls are used to ensure human health and the environment are protected. If contamination is left in place, five-year reviews will be required to ensure the continued effectiveness of the remedy.

*How involved is Kitsap County Health District?*

Although the Kitsap County Health District was not in attendance, I recently received an email from Jan Brower, a manager with the District, expressing continued interest in the project. Moreover, ATSDR was asked by Washington DOH to be involved in the process. Rhonda Kaetzel of ATSDR participated in this meeting by phone. In 2016, Washington DOH published a Public Health Assessment for the Bremerton Gasworks Superfund Site that can be accessed here:

<https://www.doh.wa.gov/Portals/1/Documents/4000/334-407.pdf>

Thanks again for your participation and interest in this site!

Eva

Eva DeMaria

Office of Environmental Cleanup | Superfund Site Cleanup Unit #2

U.S. EPA Region 10 | 1200 Sixth Avenue, Ste. 900, ECL-122 | Seattle, WA 98101

P: 206-553-1970 | [demaria.eva@epa.gov](mailto:demaria.eva@epa.gov)